



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/building](http://www.miamidade.gov/building)

## NOTICE OF ACCEPTANCE (NOA)

American Panel Corporation  
5800 S.E. 78<sup>th</sup> Street  
Ocala, Florida 34472

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Walk-In Cooler / Freezer

**APPROVAL DOCUMENT:** Drawing No. 12-APC-01, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated May 14, 2012, signed and sealed by J. W. Knezevich, P.E., on May 14, 2012, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 07-0301.04 and consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



*Helmy A. Makar*  
08/16/2012

NOA No. 12-0516.18  
Expiration Date: 08/30/2017  
Approval Date: 08/16/2012  
Page 1

**American Panel Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0301.04**

**A. DRAWINGS**

1. *Drawing No. 06-541, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Thornton Tomasetti, dated February 15, 2007, last revision #1 dated July 17, 2007, signed and sealed by J. W. Knezevich, P.E.*

**B. TESTS**

1. *Test report on Uniform Static air Pressure Test, Large Missile Impact Test, Cyclic Load Test, and Racking Load Test on Galvanized Steel Sheathed Polyurethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Construction Testing Corporation, Report No. 06-018, dated 01/15/2007, signed and sealed by Yamil Kuri, P.E.*

**C. CALCULATIONS**

1. *Calculation titled "Walk-In Cooler/Freezer Calculations", dated February 15, 2007, sheets 1 through 22 of 22, prepared by Thornton Tomasetti, signed and sealed by J. W. Knezevich, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *Tensile Test by Certified Testing Laboratories, Report # 198, dated 01/05/07, signed and sealed by Ramesh Patel, P.E.*

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 12-APC-01, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated May 14, 2012, signed and sealed by J. W. Knezevich, P.E., on May 14, 2012.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None.*



Helmy A. Makar, P.E., M.S.  
Product Control Unit Supervisor

NOA No. 12-0516.18

Expiration Date: 08/30/2017

Approval Date: 08/16/2012

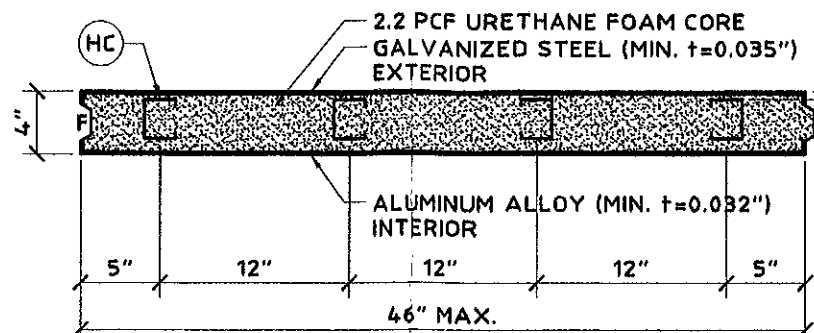
# GENERAL NOTES:

- THESE PRODUCT EVALUATION DOCUMENTS REPRESENT A WALK-IN COOLER/FREEZER SYSTEM ANALYZED WITH THE PROVISIONS SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PERMITTING, ENVIRONMENT AND REGULATORY AFFAIRS, PRODUCT CONTROL SECTION. THESE DOCUMENTS COMPLY WITH THE FLORIDA BUILDING CODE (FBC), 2010 EDITION, HIGH VELOCITY HURRICANE ZONE (HVHZ) PROVISIONS.
- FOR AREAS OUTSIDE OF THE HVHZ, SITE SPECIFIC ENGINEERING IS REQUIRED TO VERIFY THE SITE SPECIFIC DESIGN WIND LOADS AND PANEL TESTING COMPLY WITH THE TESTING REQUIREMENTS OF FBC SECTION 1715.3.1.
- THESE PRODUCT EVALUATION DOCUMENTS ADDRESS THE STRUCTURAL REQUIREMENTS FOR COMPLIANCE WITH THE STRUCTURAL PORTIONS OF THE NOTED CODES. MECHANICAL, ELECTRICAL AND WATERPROOFING REQUIREMENTS ARE NOT PART OF THE EVALUATION. SPECIFIC USE OF THE EVALUATION REQUIRES THE ARCHITECT OR ENGINEER OF RECORD TO ADDRESS THE MECHANICAL, ELECTRICAL, AND WATERPROOFING REQUIREMENTS FOR THE INSTALLATION.
- DESIGN LOADS:
  - ROOF:
    - DEAD LOAD: 5.0 PSF
    - LIVE LOAD: 30 PSF
    - MECHANICAL EQUIPMENT: 330 LBS MAXIMUM, PROVIDE MINIMUM 4'-0" SPACING.
  - WALLS:
    - DEAD LOAD: WALL PANEL 2.6 PSF
  - FLOORS:
    - DEAD LOAD: FLOOR PANEL 4.0 PSF
    - LIVE LOAD: INSULATED FLOOR 250 PSF
    - FLOORLESS 250 PSF

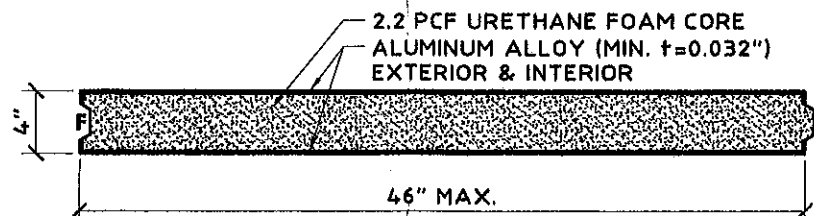
D. WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THE CODE PROVISIONS AT THE TIME OF PERMIT BASED ON THE SITE SPECIFIC CONDITIONS. SEE TABLE 3 ON SHEET 2 FOR ALLOWABLE WIND LOADS USED IN THE DESIGN OUTLINED WITHIN THESE DOCUMENTS. THESE LOADS ARE ALLOWABLE LOADS BASED ON WIND LOAD RESISTANCE TESTING. IN ACCORDANCE WITH FBC 2010 EDITION, SECTION 1609.1.5, LOADS DETERMINED IN ACCORDANCE WITH ASCE 7-10 OR SECTION 1609 ARE PERMITTED TO BE MULTIPLIED BY 0.6 WHEN USED WITH THESE DOCUMENTS.
- THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATION OF THIS WALK-IN COOLER/FREEZER SYSTEM.
- THESE DOCUMENTS REPRESENT THE STRUCTURAL AND MATERIAL REQUIREMENTS OF THE WALK-IN COOLER/FREEZER STRUCTURE. THESE APPROVAL DOCUMENTS SHALL NOT BE APPLIED BY THE CONTRACTOR, ON A SPECIFIC SITE WITHOUT THE INVOLVEMENT OF AN ARCHITECT OR ENGINEER OF RECORD (A/E OF RECORD). THE A/E OF RECORD SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE CODE REQUIREMENTS OF A SPECIFIC INSTALLATION INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  - VERIFY THE SITE SPECIFIC WIND LOAD REQUIREMENTS ARE WITHIN THE CRITERIA USED TO DEVELOP THESE DOCUMENTS AND THE UNIT IS CONFIGURED IN COMPLIANCE WITH THE LIMITATIONS HEREIN.
  - VERIFY THE FOUNDATION DESIGN IS ADEQUATE TO RESIST THE FOUNDATION LOADS IDENTIFIED IN TABLE 1.
  - VERIFY THE EXISTING BUILDING IS ADEQUATE TO RESIST THE SUPERIMPOSED LOADS IDENTIFIED IN TABLE 1.
  - WEATHER PROTECTION, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL REQUIREMENTS ARE OUTSIDE THE SCOPE OF THESE DOCUMENTS. DETERMINE AND/OR PROVIDE FOR COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- THESE APPROVAL DOCUMENTS COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- ANY MODIFICATIONS OR ADDITIONS TO THESE PRODUCT EVALUATION DOCUMENTS WILL VOID THE PRODUCT EVALUATION DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL SHALL REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PERMITTING, ENVIRONMENT AND REGULATORY AFFAIRS, PRODUCT CONTROL SECTION.
- ALL BOLTS AND SCREWS SHALL BE 2024-T4 ALUMINUM ALLOY, ELECTRO-GALVANIZED STEEL, HOT DIPPED GALVANIZED STEEL OR 300 SERIES STAINLESS STEEL WITH A MIN. TENSILE STRENGTH OF 60 KSI.
- ALL CONCRETE ANCHORS SHALL BE AS SPECIFIED ON THE DRAWINGS. EMBEDMENT LENGTHS NOTED ON THE DRAWINGS SHALL NOT INCLUDE FINISH MATERIAL.
- DISSIMILAR METALS IN CONTACT WITH EACH OTHER SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC CHAPTER 20, SECTION 2003.8.4.
- AN ALLOWABLE STRESS INCREASE IS NOT USED IN THE DESIGN OF THE COOLER/FREEZER UNIT NOR ITS ATTACHMENTS.

## RIGID URETHANE FOAM SANDWICH PANEL SPECIFICATIONS

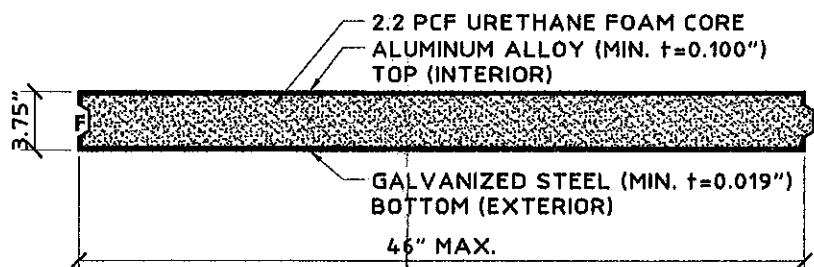
- WALL & ROOF COMPOSITE SANDWICH PANELS ARE COMPRISED OF ALUMINUM OR STEEL FACINGS WITH POURED URETHANE PLASTIC CORES. THICKNESS AND MATERIAL OF FACINGS SHALL BE AS SHOWN ON THE DRAWINGS.
- ALUMINUM FACINGS ON WALL AND ROOF PANELS SHALL BE 3105-H254 ALLOY (MIN. FY=26.7 KSI) FOR INTERIOR AND EXTERIOR USE.
- ALUMINUM FACINGS ON FLOOR PANELS SHALL BE 5052-H34 ALLOY WITH A MINIMUM FY=30.8 KSI FOR INTERIOR USE.
- STEEL FACINGS USED ON ROOF PANELS SHALL COMPLY WITH ONE OF THE FOLLOWING:
  - ASTM A653 CS, TYPE B WITH A MIN. FY = 48 KSI, MIN. THICKNESS OF 0.035" AND G90 COATING.
  - ASTM A653 SS, GRADE 50, CLASS 1, WITH A MIN. THICKNESS OF 0.035" AND G90 COATING.
- STEEL FACINGS USED ON FLOOR PANELS SHALL BE ASTM A653 SS, GRADE 33 WITH A MINIMUM THICKNESS OF 0.019" AND A G90 COATING FOR EXTERIOR USE.
- AVERAGE DENSITY OF URETHANE FOAM CORE SHALL BE 2.3 PCF WITH A RANGE OF ANY GIVEN MEASUREMENT OF +/- 10%.
- URETHANE FOAM CORE SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 75 AND SHALL HAVE A SMOKE-DEVELOPED RATING OF NOT MORE THAN 450.
- METAL FACINGS SHALL BE ADHERED TO FOAM WITH AN AIR SPRAY COATING OF UPACO #1882 (3001881H) ADHESIVE AT A RATE OF 0.147 FLUID OUNCES PER SQUARE FOOT.
- FOR SPECIFIC REQUIREMENTS OF FOAM PLASTICS IN WALK-IN COOLERS, SEE FBC SECTION 2612.3.2.1 AND 2612.3.2.2.



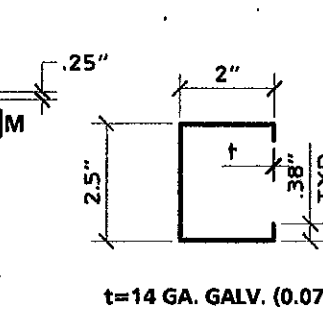
**RP1 ROOF PANEL**  
SCALE: 1" = 1'-0"



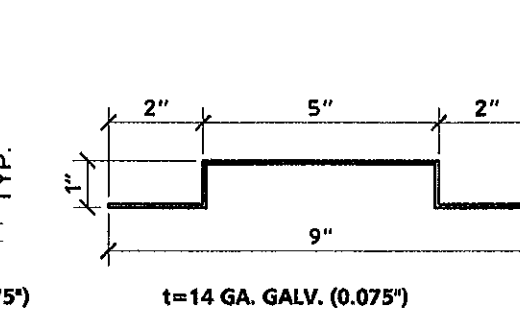
**WP WALL PANEL**  
SCALE: 1" = 1'-0"



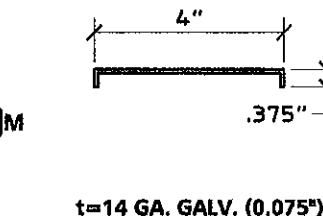
**FP FLOOR PANEL**  
SCALE: 1" = 1'-0"



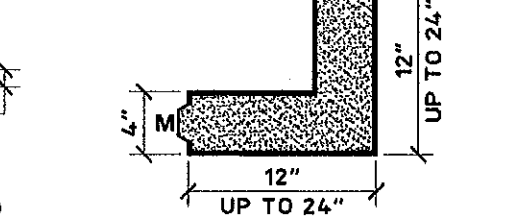
**HC STRUCTURAL SUPPORT "HAT" CHANNEL (STEEL)**  
SCALE: 3" = 1'-0"



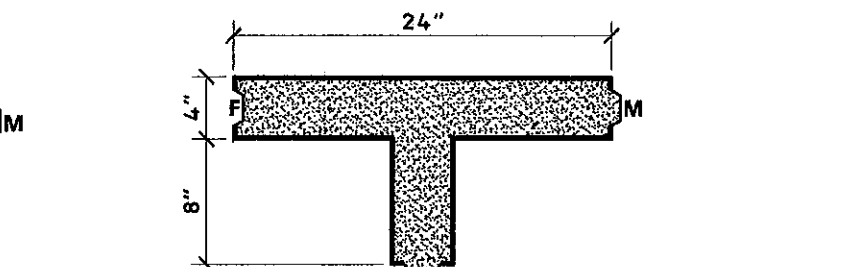
**RC STRUCTURAL SUPPORT DOOR PANEL REINF. CHANNEL**  
SCALE: 3" = 1'-0"



**DC STRUCTURAL SUPPORT DOOR CHANNEL (STEEL)**  
SCALE: 3" = 1'-0"



**WC WALL PANEL (CORNER SECTION)**  
SCALE: 1" = 1'-0"



**WT WALL PANEL (TEE SECTION)**  
SCALE: 1" = 1'-0"

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0516-18  
Expiration Date 08/30/2017  
By [Signature]  
Miami Dade Product Control

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## WALK-IN COOLER / FREEZER

American Panel Corporation

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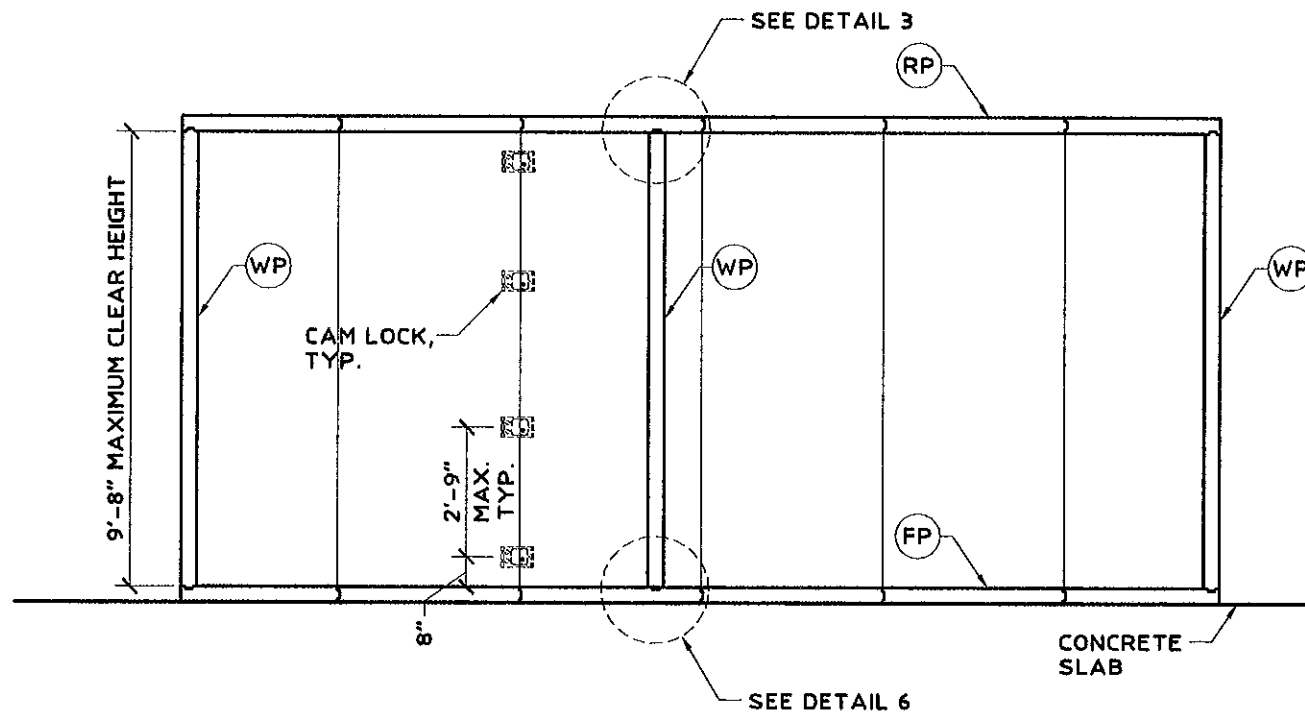
**American Panel**

revisions	description	no	date	by

**J.W. Knezevich**  
Professional Engineer  
FL License No.: PE 41961

By [Signature]  
Miami Dade Product Control

drawn by ARV scale AS NOTED  
date 05/14/2012  
drawing no. **12-APC-01**  
sheet 1 of 5



**A SECTION (TYP.)**  
SCALE: 1/4" = 1'-0"

TABLE 1	LOADS FOR FOUNDATION DESIGN	NET WIND FORCES
P <sub>V</sub>		± 860 # / FT
P <sub>H</sub>		± 250 # / FT

TABLE 2	UNIT WIDTH (W) FT - IN	UNIT LENGTH (L) MINIMUM NUMBER OF 46" PANELS ON EXTERIOR WALL FOR A GIVEN UNIT WIDTH (W) FT - IN
	≤ 9'-0"	2
	9'-0" < W ≤ 10'-9"	3
	10'-9" < W ≤ 11'-7"	4

TABLE 3	ALLOWABLE WIND LOADS (PSF)				
	ROOF MAX. LENGTH 11'-7"			WALL MAX. HEIGHT 9'-8"	
ZONES	1	2	3	4	5
NEGATIVE	-44.0	-60.7	-75.5	-43.0	-50.5
POSITIVE	+16.4			+39.4	

**TABLE 1 NOTES:**

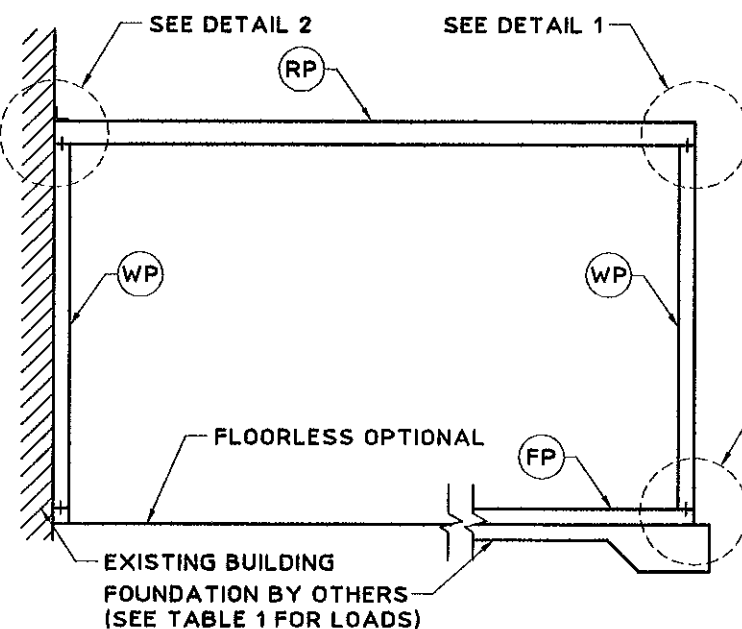
1. NET WIND FORCES REPRESENT THE REACTIONS FROM ALLOWABLE STRESS WIND LOAD COMBINATIONS ASSUMING MAXIMUM ROOF PANEL SPANS AND MAXIMUM WALL PANEL HEIGHTS.
2. P<sub>V</sub> REPRESENTS THE VERTICAL WIND REACTION
3. P<sub>H</sub> REPRESENTS THE HORIZONTAL WIND REACTION.

**TABLE 2 NOTES:**

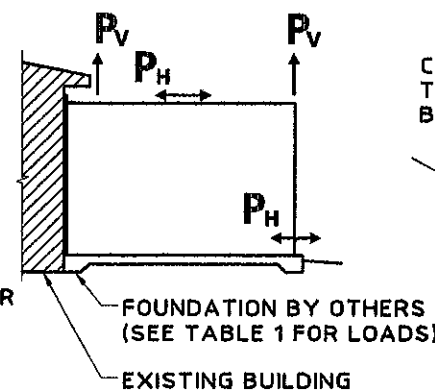
1. THIS TABLE SPECIFIES THE MINIMUM NUMBER OF 46" PANELS REQUIRED ON THE FRONT WALL OF THE UNIT TO ESTABLISH THE LATERAL LOAD RESISTANCE NECESSARY FOR A GIVEN ROOF SPAN.

**TABLE 3 NOTES:**

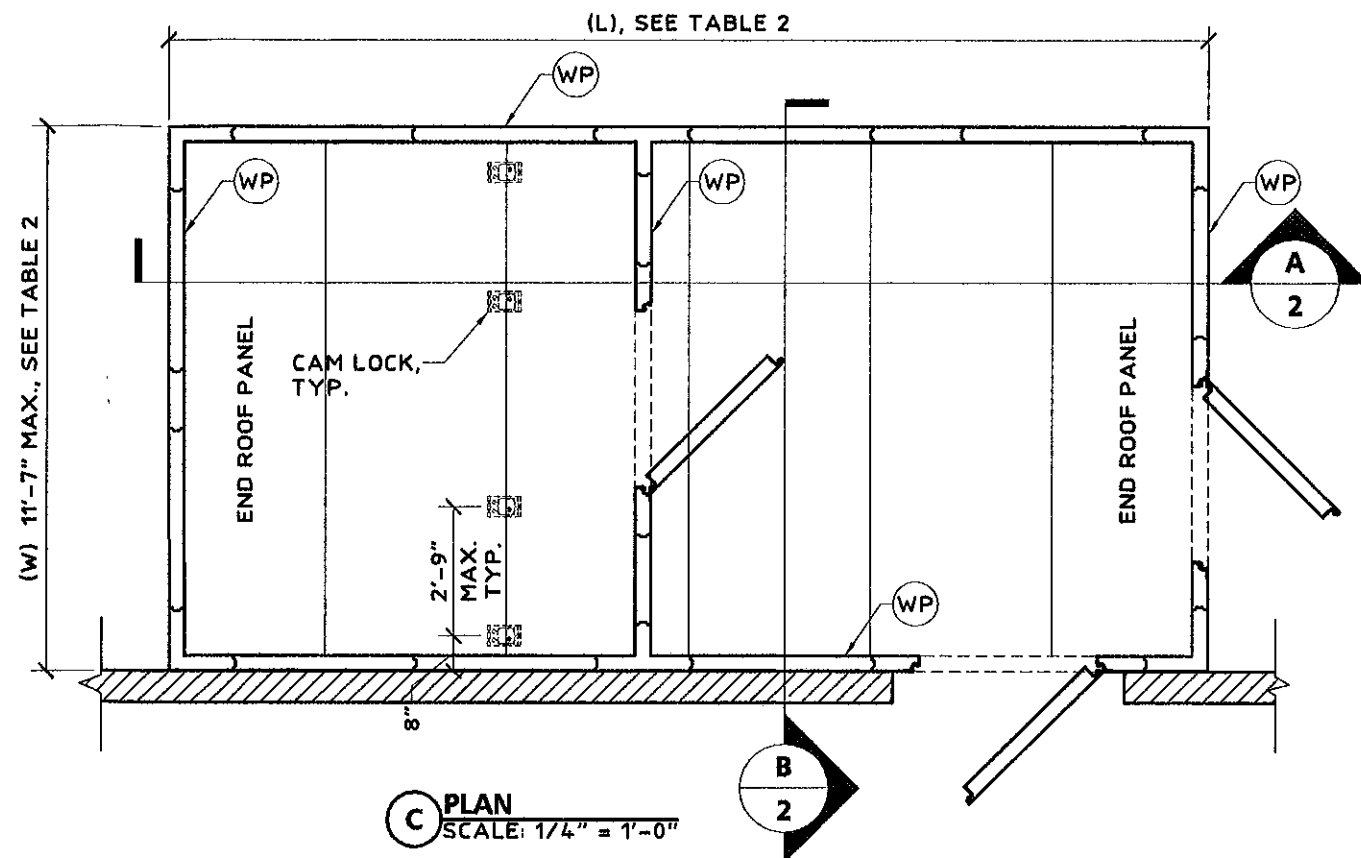
1. ALLOWABLE WIND LOADS SHOWN REPRESENT THE COMPONENT WIND LOADS USED IN THE DESIGN SHOWN HEREIN. TO DETERMINE COMPLIANCE, SITE SPECIFIC WIND LOADS SHALL BE MULTIPLIED BY THE LOAD FACTOR 0.6 WHEN COMPARING TO THESE VALUES.
2. SITE SPECIFIC WIND LOADS DETERMINED IN ACCORDANCE WITH GENERAL NOTES 4.D AND 6.A SHALL BE LESS THAN OR EQUAL TO THESE LOADS.
3. ALLOWABLE WIND LOADS ARE BASED ON A FACTOR OF SAFETY OF 1.5 FOR WALL PANELS AND 2.0 FOR ROOF PANELS WITH A MINIMUM RECOVERY OF 80% IN ACCORDANCE WITH TAS 202 AND THE HVHZ PROVISIONS OF THE FBC.



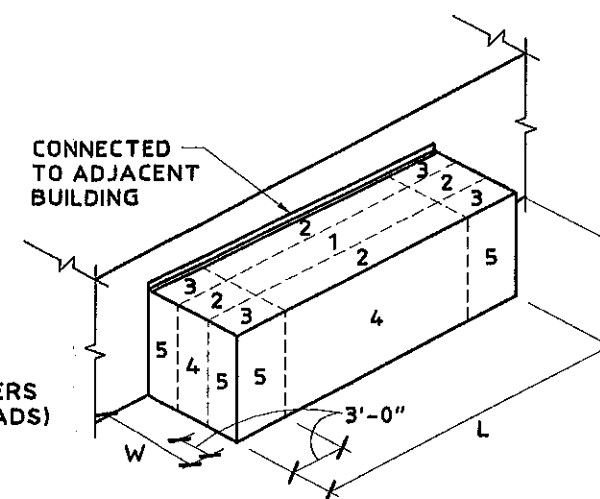
**B SECTION (TYP.)**  
SCALE: 1/4" = 1'-0"



**D ELEVATION**  
N.T.S.



**C PLAN**  
SCALE: 1/4" = 1'-0"



(SEE TABLE 2 FOR WIDTH/LENGTH LIMITATION)

**E ISOMETRIC WITH WIND ZONES**  
N.T.S.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 12-9516-18  
Expiration Date 08/30/2017  
By *[Signature]*  
Miami Dade Product Control

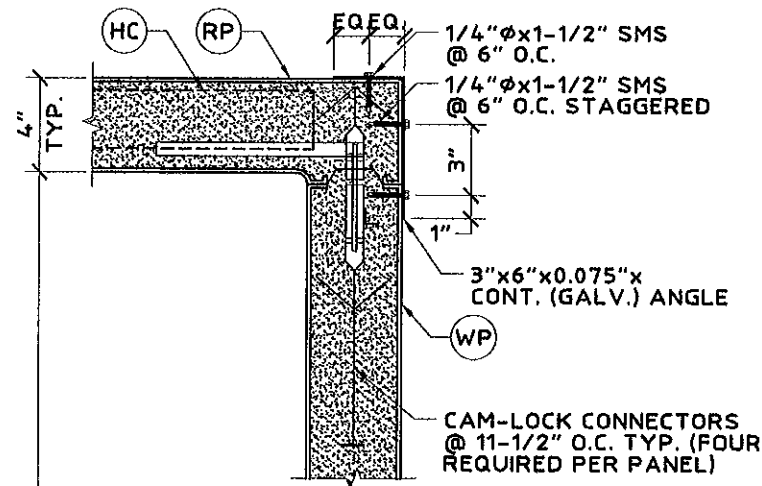
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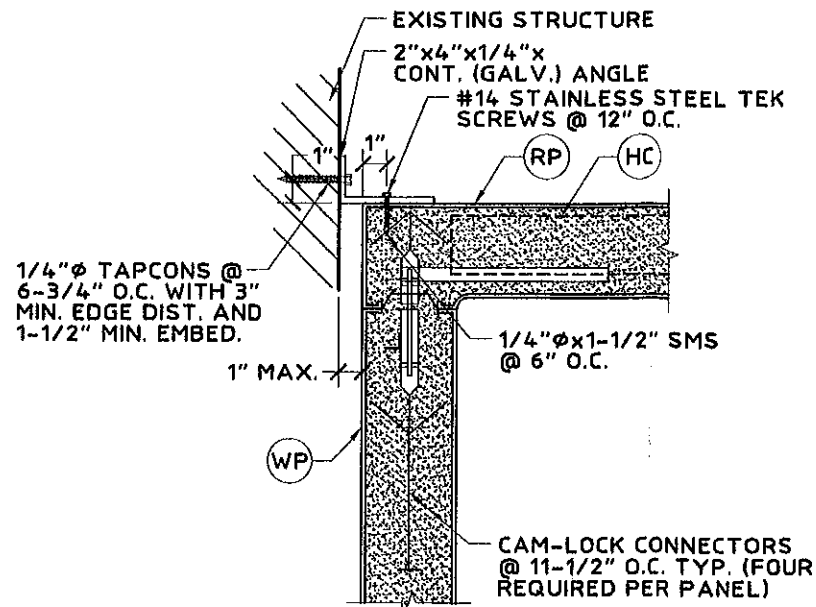
revisions	description	no	date	by

**J.W. Knezevich**  
Professional Engineer  
FL License No.: PE 41961

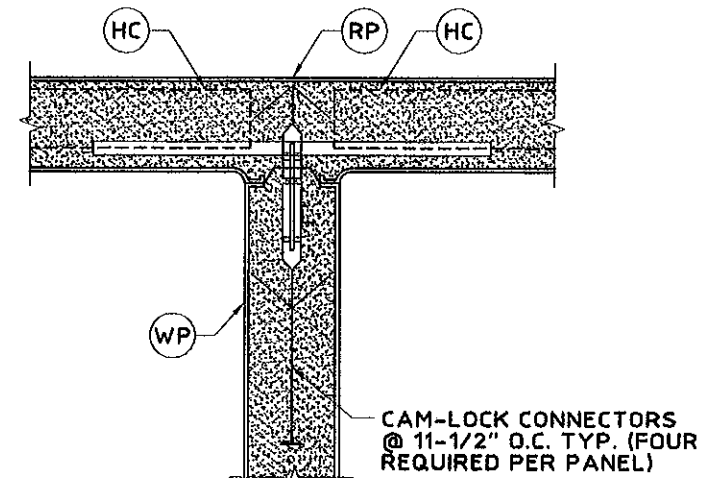
drawn by ARV  
date 05/14/2012  
scale AS NOTED  
drawing no. **12-APC-01**  
sheet 2 of 5



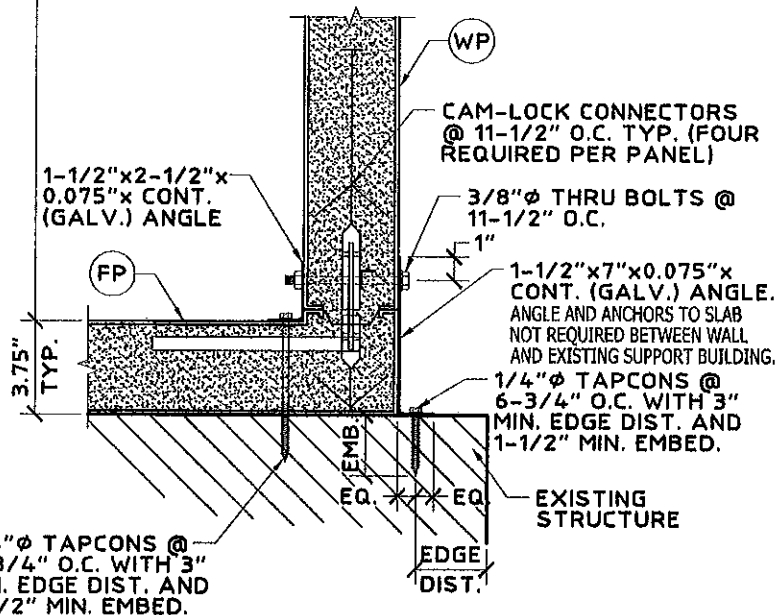
**1 DETAIL 1**  
SCALE: 1-1/2" = 1'-0"



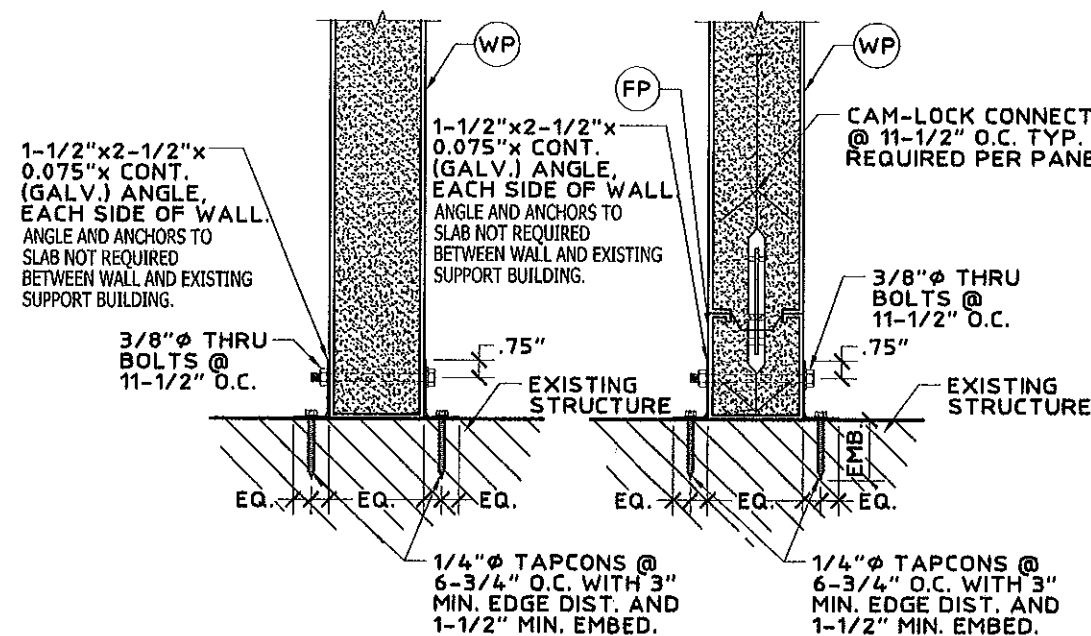
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SCALE: 1-1/2" = 1'-0"



**3 DETAIL 3**  
SCALE: 1-1/2" = 1'-0"

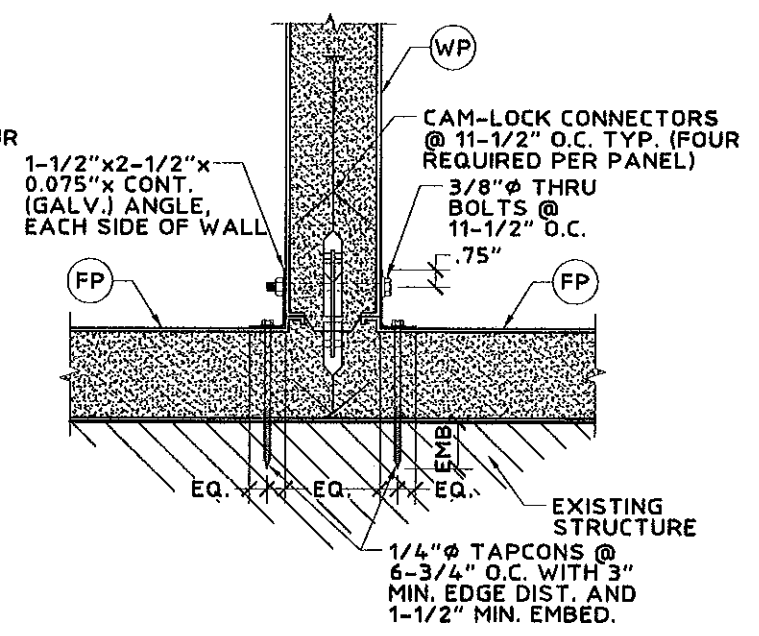


**4 DETAIL 4**  
SCALE: 1-1/2" = 1'-0"

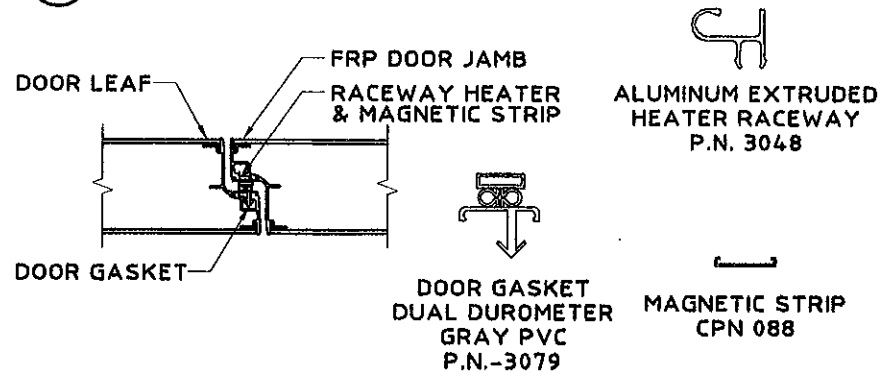


**5 DETAIL 5**  
SCALE: 1-1/2" = 1'-0"

**5A DETAIL 5A**  
SCALE: 1-1/2" = 1'-0"



**6 DETAIL 6**  
SCALE: 1-1/2" = 1'-0"



**7 DETAIL 7**  
SCALE: 1-1/2" = 1'-0"

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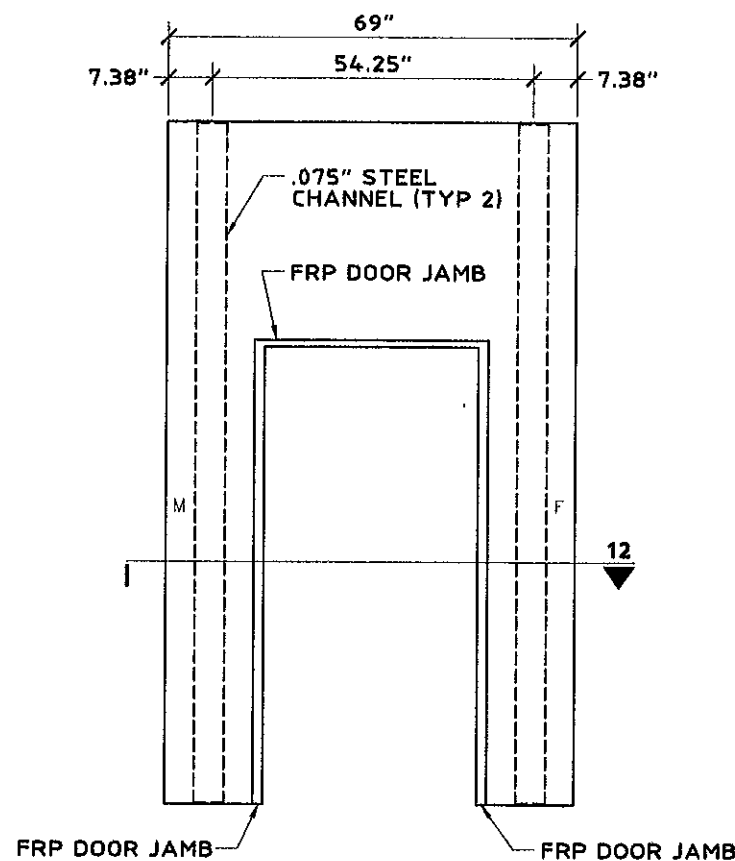
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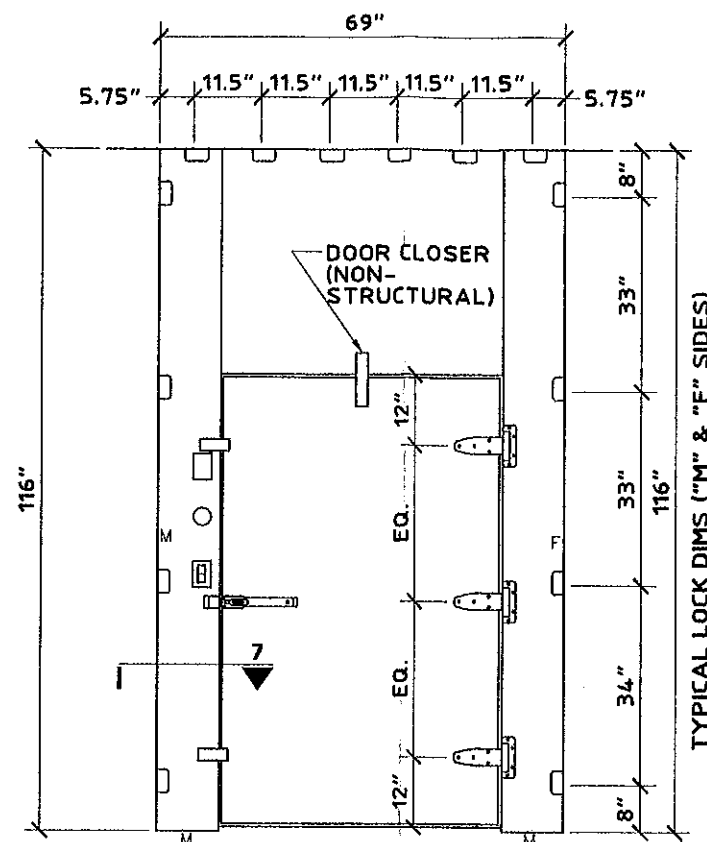
revisions	description	by	date

**J.W. Knezevich**  
Professional Engineer  
FL License No.: PE 41961

drawn by *[Signature]* scale AS NOTED  
date 05/14/2012  
drawing no. **12-APC-01**  
sheet 3 of 5

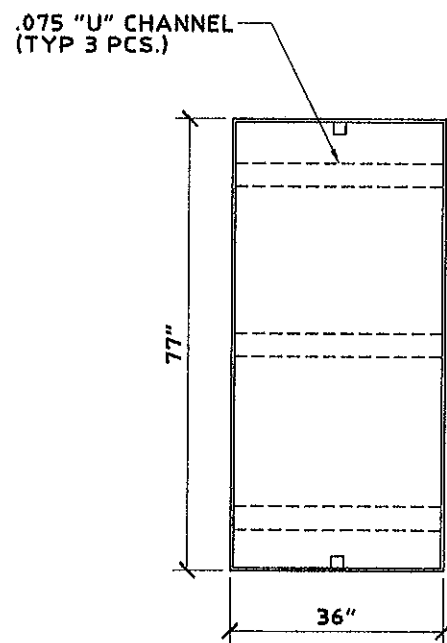


8 DOOR PANEL WITH REINFORCEMENT  
SCALE: 3/8" = 1'-0"

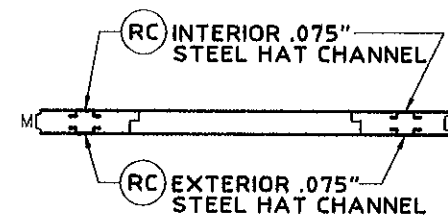


9 DOOR ELEVATION (EXPOSED TO EXTERIOR)  
SCALE: 3/8" = 1'-0"

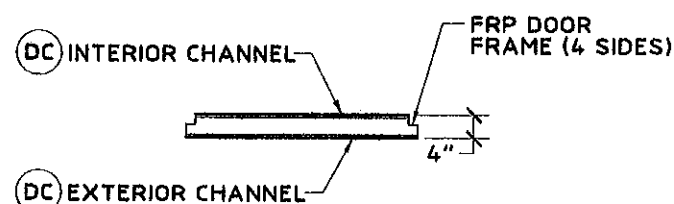
10 NOT USED



11 DOOR LEAF SHOWING EXTERIOR CHANNEL REINFORCEMENT  
SCALE: 3/8" = 1'-0"



12 SECTION THRU DOOR PANEL  
SCALE: 3/8" = 1'-0"



13 SECTION THRU DOOR  
SCALE: 3/8" = 1'-0"

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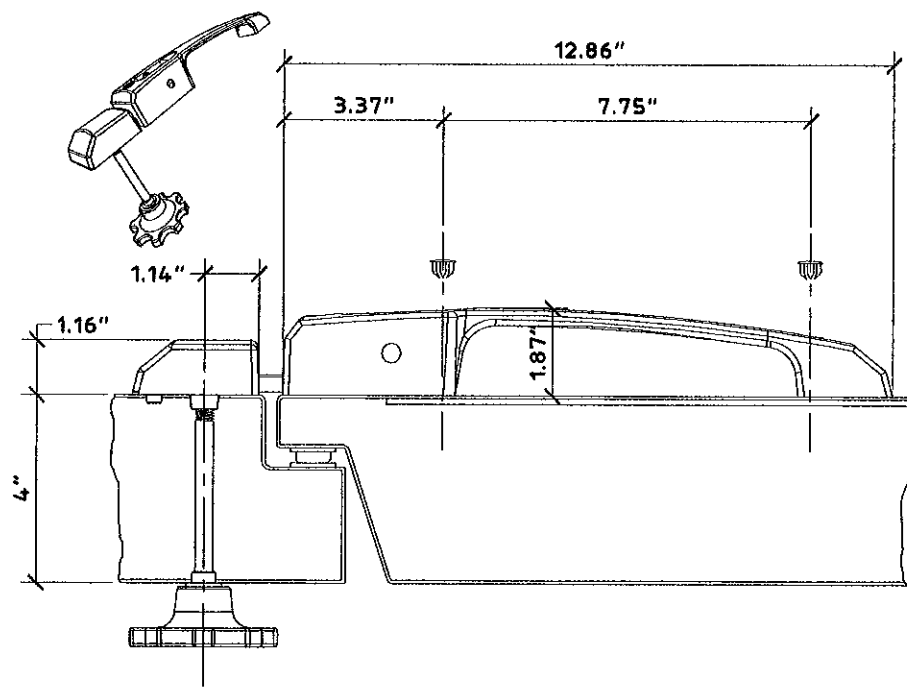
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5800 S.E. 78th Street  
Ocala, FL 34472  
Tel: (352) 245-7055  
Fax: (352) 245-0726  
**American Panel**

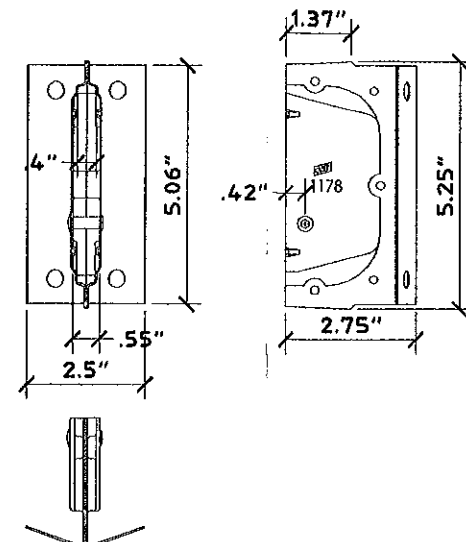
revisions		description	
no	date	by	

J.W. Knezevich  
Professional Engineer  
FL License No.: PE 41961

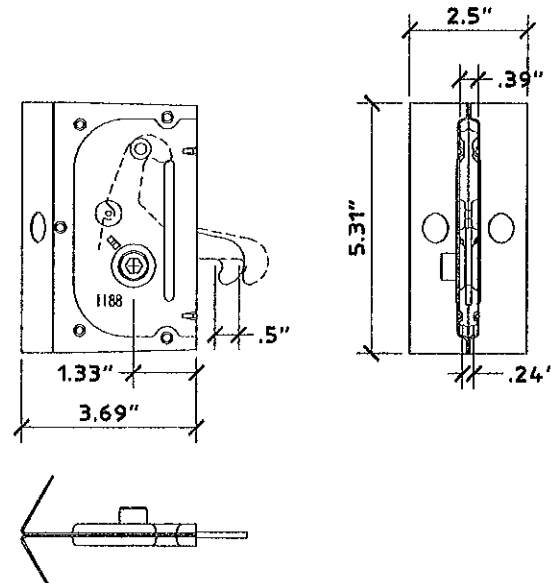
drawn by ARV scale AS NOTED  
date 05/14/2012  
drawing no. 12-APC-01  
sheet 4 of 5



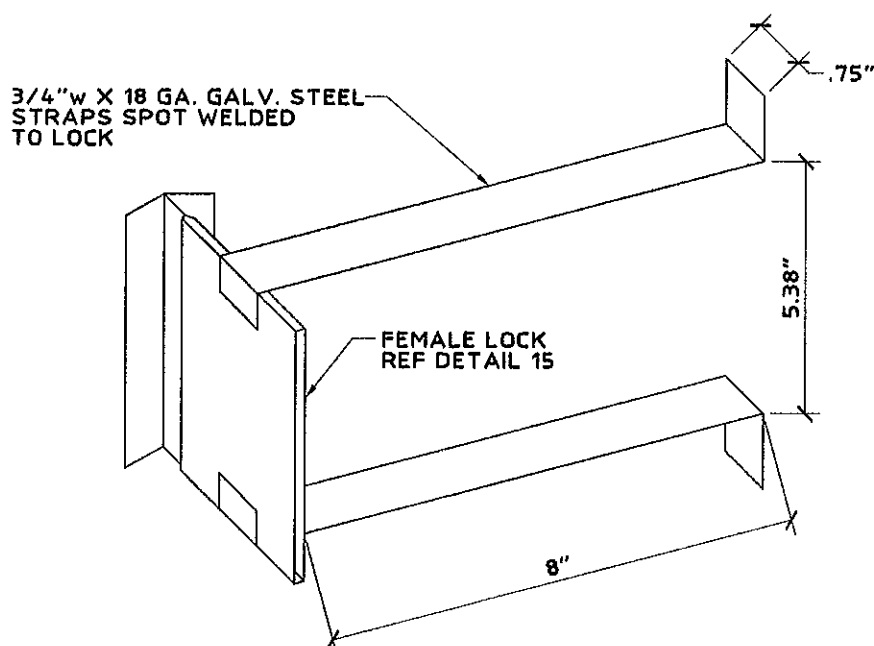
**14 DOOR LATCH (KASON MODEL #27C)**  
N.T.S.



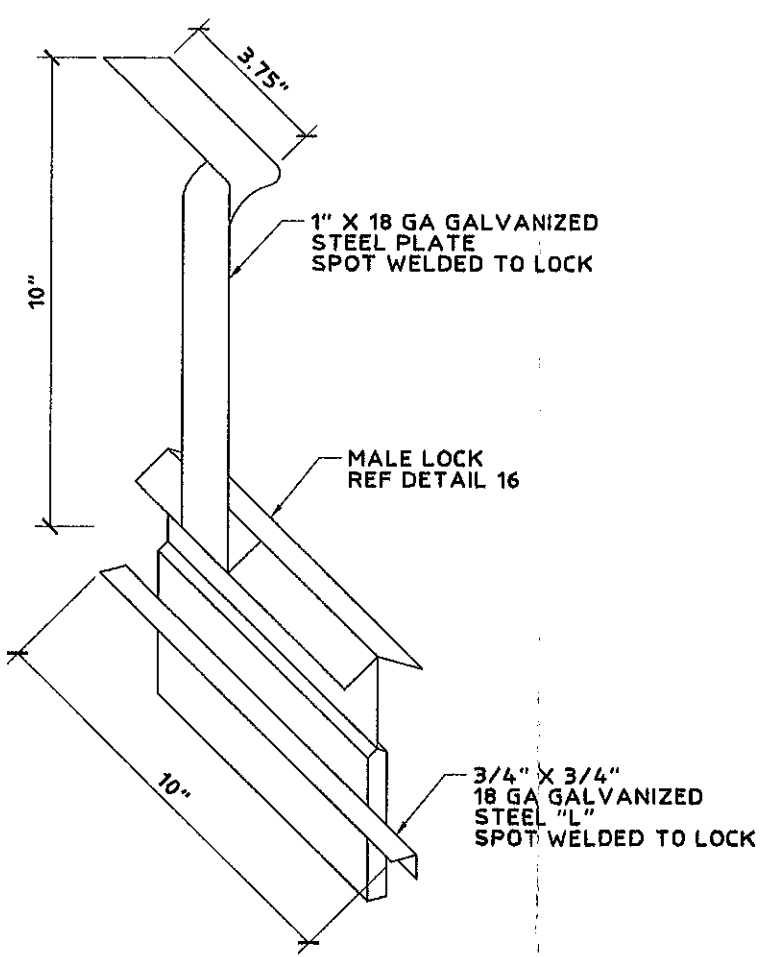
**15 FEMALE CAM LOCK (KASON MODEL #1178P)**  
N.T.S.



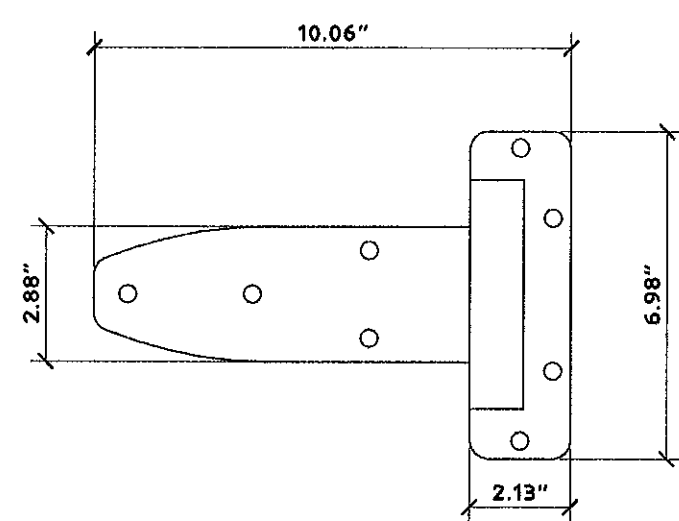
**16 MALE CAM LOCK (KASON MODEL #1168P)**  
N.T.S.



**17 FEMALE STRIKE W/STRAP**  
N.T.S.



**18 MALE LOCK W/STRAP & ANGLE**  
N.T.S.



**19 DOOR HINGE (DENT MODEL # D69B)**  
N.T.S.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0516.18  
Expiration Date 08/30/2017  
By *[Signature]*  
Miami Dade Product Control

revisions	description	no	date	by

**J.W. Knezevich**  
Professional Engineer  
FL License No.: PE 41961

drawn by *[Signature]* scale AS NOTED  
date 05/14/2012  
drawing no. **12-APC-01**  
sheet 5 of 5